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|   |      |       |  |

Application/Control No.

09/453,509

Examiner

Thai Q. Phan

Applicant(s)/Patent under Reexamination

BEVERINA ET AL.

Art Unit

2128

| 1 | Rejected |
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| = | Allowed  |

| - | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

| Z | Non-Elected  |
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| 0 | Objected |

| E     D       | CI    | nim      | Date       |  |   | Claim Date |          |  |        |  |          |            |  |          |                | ٦   | Claim D  |        |   |        |   |    | Date  |          |          |        |        |        |           |           |
|---|-------|----------|------------|--|---|------------|----------|--|--------|--|----------|------------|--|----------|----------------|---|----------|--------|---|--------|---|----|-------|----------|----------|--------|--------|--------|-----------|-----------|
| 1     v     551     101     102     103     103     103     103     103     103     103     104     103     104     103     104     105     105     105     105     106     106     107     105     106     106     107     106     107     106     107     107     108     108     108     108     108     108     108     109     100     107     108     107     107     108     108     109     100     110     1110     1110     1110     1110     1110     1110     1110     1110     1111     112     112     113     113     113     114     114     114     114     114     114     114     114     114     114     114     114     11   | 1     |          |            |  |   | Γ.         |          | Ť  | 1      | Т  | $\dashv$ | <b>⊢</b> ` |  |          |                |   |          |        |   |        | 1   | ۳  |       |          | Т        |        | Ť      |        | $\neg$    |           |
| 2   | Final | Original | 9/12/05    |  |   |            |          |  |        |  |          | Final      | 3  | Original |                |   |          |        |   |        |   |    | Finat | Original |          |        |        |        |           |           |
| 2   |       | 1        | v          |  | - | T          | $\vdash$ | <del>                                     </del> | ┪      | ╁  | $\neg$   |            | $\top$   | 51       | $\neg \dagger$ | $\top$  | Ħ        |        |   |        |   | 1  |       | 101      | $\sqcap$ | 7      | $\neg$ |        | $\Box$    | $\dashv$  |
| 3    v  |       |          | _          |  |   | 1          | l        | ı  | 1      | l  |          |            |  |          | $\dashv$       | İ   |          |        |   | 1      | $\dashv$  |    |       | 102      |          | 寸      | 寸      |        | П         | $\neg$    |
| 4   |       |          | v          |  |   |            | Г        | Г  | Τ      | 1  | $\neg$   |            |  |          |                | 1   |          |        |   |        |   | 1  |       |          |          | 寸      |        |        | П         | $\neg$    |
| 5    v  |       |          | v          |  |   | İ          |          |  |        | <del>                                     </del> | ヿ        |            |  |          | $\neg$         | 1   |          |        |   |        | $\neg$  | 1  |       |          |          | ╗      | $\neg$ |        | $\Box$    | ヿ         |
| 6    v  |       |          |            |  |   | T          |          |  |        | İ  | _        |            | T  | 55       | $\top$         | Ť   |          |        |   | T      | $\dashv$  |    |       |          |          | 7      | $\neg$ |        |           | $\neg$    |
| T   |       |          | v          |  |   |            | T        |  | 1      |  |          |            |  |          | 1              |   | T        |        |   |        |   |    |       |          |          |        | $\neg$ |        |           | $\neg$    |
| 8    v  |       | _        | _          |  | Т | ⇈          |          |  |        | T  | $\neg$   |            | $\top$   | 57       | $\top$         | 1   | $\vdash$ |        |   |        |   |    |       |          |          | 寸      | 一      | $\Box$ |           | $\neg$    |
| 10  | -     | 8        | v          |  |   |            | Π        |  |        | T  | $\neg$   |            |  |          |                | T   |          |        |   |        |   |    | -     |          |          | $\neg$ | T      |        |           | $\exists$ |
| 10  |       |          | v          |  |   |            |          |  |        |  |          | -          |  |          |                |   |          |        |   |        |   |    |       |          |          | 寸      | コ      |        | П         | コ         |
| 112    v  |       | 10       | v          |  |   |            |          |  |        |  | $\neg$   | _          |  |          |                | Τ_  | Т        |        |   |        | $\top$  | 1  |       | 110      |          | $\neg$ | $\neg$ |        | П         | $\neg$    |
| 13  |       | 11       | ٧          |  |   |            |          |  |        |  | $\Box$   |            | T  | 61       |                |   |          |        |   |        |   |    |       | 111      |          |        |        |        |           | $\neg$    |
| 14  |       | 12       | ٧          |  |   |            |          |  | Г      |  |          |            | Т  | 62       |                |   | П        |        |   |        |   |    |       | 112      |          | П      | T      |        | П         | П         |
| 15 -  |       | 13       | -          |  |   |            |          | Π  | Π      | Γ  | $\Box$   |            |  | 63       |                |   |          |        |   |        |   |    |       | 113      |          |        |        |        | П         | $\neg$    |
| 15  |       |          |            |  |   | $\Box$     | Π        |  |        | Π  |          |            |  | 64       |                |   |          |        |   |        |   |    |       | 114      |          |        |        | 1      | $\Box$    |           |
| 17  |       | 15       | -          |  |   |            |          |  | Г      |  | $\neg$   |            | T  | 65       |                |   |          |        |   |        |   |    |       | 115      |          |        |        |        | П         | $\neg$    |
| 18 -   68   69   118   119   120   120   120   120   120   120   120   121   120   121   121   121   121   121   122   123   123   123   123   124   124   124   124   124   125   126   126   127   127   127   127   127   127   127   127   128   129   130   130   131   131   132   133   131   131   131   132   133   133   133   133   133   133   133   133   133   133   133   133   134   134   134   134   134   134   134   134   134   134   134   134   135   136   133   133   133   134   134   134   134   134   134   134   134   134   134   134   135   136   135   136   137   137   137   137   138   138   138   138   138   138   13   |       | 16       | -          |  |   |            |          |  |        |  | П        |            | T  | 66       |                |   |          |        |   |        |   |    |       | 116      |          |        |        |        |           | $\neg$    |
| 19  |       | 17       | -          |  |   |            |          | П  | Π      | Π  | $\neg$   |            | T  | 67       | $\neg \vdash$  |   | Π        |        |   |        | $\top$  |    |       | 117      |          |        | コ      |        | П         | コ         |
| 120   |       | 18       | -          |  |   |            |          |  |        | Г  | $\neg$   |            | T  | 68       |                |   |          |        |   |        |   |    |       | 118      |          |        | ヿ      |        |           | $\neg$    |
| 21 -   71   72   121   122   123   124   122   123   124   124   124   124   125   126   125   126   127   127   126   127   127   127   127   128   129   129   129   129   130   130   131   130   131   131   132   133   134   134   135   135   135   136   137   137   137   137   137   137   139   140   141   141   142   143   144   144   142   143   144   144   144   144   145   14   |       |          | -          |  |   |            |          |  |        |  | $\neg$   |            | T  | 69       |                | 1   |          |        |   |        |   |    |       |          |          | ヿ      |        |        | П         | コ         |
| 22   -   -   72   122   123   124   124   124   124   124   125   126   126   127   126   127   126   127   128   128   129   128   129   129   130   131   131   131   131   132   133   133   133   133   133   133   133   133   133   133   133   133   133   133   133   133   133   134   134   134   135   136   137   136   137   137   138   138   139   140   140   141   141   142   142   143   144 <td></td> <td>20</td> <td>-</td> <td></td> <td></td> <td></td> <td>Γ</td> <td></td> <td>Г</td> <td></td> <td><math>\neg</math></td> <td></td> <td>Т</td> <td>70 ·</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>120</td> <td>П</td> <td>П</td> <td></td> <td></td> <td></td> <td><math>\neg</math></td> |       | 20       | -          |  |   |            | Γ        |  | Г      |  | $\neg$   |            | Т  | 70 ·     |                |   | 1        |        |   |        |   |    |       | 120      | П        | П      |        |        |           | $\neg$    |
| 23 -   24 -   25 -   26 -   27 -   28 -   29 -   30 -   31 -   32 -   33 -   33 -   33 -   33 -   33 -   33 -   33 -   35 -   36 -   37 -   38 -   39 -   40 -   90 -   141 -   42 -   92 -   143 -   44 v   94 -   46 -   47 v   48 -   47 v   98 -   146 -   99 -   145 -   98 -   149 -  |       | 21       | -          |  |   |            |          | Г  | Г      |  |          |            | T  | 71       |                |   |          |        |   |        |   |    |       |          |          |        |        |        |           | П         |
| 24 -   124 -     25 -   125 -     26 -   126 -     27 -   127 -     28 -   77 -     29 -   128 -     30 -   129 -     30 -   80 -     31 -   81 -     32 -   83 -     33 -   82 -     83 -   132 -     83 -   83 -     36 -   86 -     37 -   88 -     33 -   88 -     88 -   135 -     87 -   137 -     88 -   138 -     90 -   140 -     91 -   141 -     92 -   142 -     93 -   143 -     94 -   144 -     95 -   144 -     96 -   144 -     97 -   144 -     98 -   148 -     99 -   148 -   |       | 22       | -          |  |   | Г          |          |  | Г      |  |          |            | Т  |          |                |   | П        |        |   |        |   |    |       | 122      |          | T      | T      |        |           | П         |
| 125   |       | 23       | -          |  |   |            |          |  |        |  |          |            | T  |          |                |   |          |        |   |        |   |    |       | 123      |          |        |        |        |           | $\Box$    |
| 26 - 76   27 - 126   28 - 77   28 - 78   29 - 129   30 - 80   31 - 130   32 - 82   33 - 131   34 - 82   35 - 85   36 - 85   37 - 86   37 - 88   88 135   37 - 88   88 135   37 - 88   88 137   38 - 90   40 - 91   41 - 91   42 - 92   43 - 93   44 v 94   45 - 96   46 - 97   48 - 98   146 147   48 - 98   148 - 148   99 148   |       |          | -          |  |   |            |          |  |        |  |          |            | T  |          |                |   |          |        |   |        |   |    |       | 124      |          |        |        | _      |           | П         |
| 27 - 77   28 - 78   29 - 128   30 - 80   31 - 81   32 - 82   33 - 83   34 - 84   35 - 85   36 - 86   37 - 88   39 - 88   40 - 90   41 - 91   42 - 92   43 - 94   44 v 94   45 - 96   46 - 96   47 v 97   48 - 98   148 149  |       |          | _          |  |   |            |          |  |        |  |          |            |  |          |                |   |          |        |   |        |   |    |       |          |          |        |        |        |           |           |
| 28 - 78   29 - 128   30 - 80   31 - 81   32 - 82   33 - 83   34 - 84   35 - 85   36 - 86   37 - 88   39 - 89   40 - 90   41 - 91   42 - 92   43 - 93   44 v 94   45 - 96   47 v 97   48 - 98   49 - 149   |       |          | <b>-</b>   |  |   | Г          |          | Π  | П      | Г  |          |            | Т  |          |                | T   |          |        |   |        |   |    |       |          |          |        |        |        |           | П         |
| 29 -   30 -   80   130   130   130   131   131   131   132   132   133   133   134   134   135   135   135   136   136   137   136   137   136   137   136   137   138   138   138   139   140   141   141   142   143   144   142   143   144   144   145   145   146   147   148   148   149  |       | 27       | -          |  |   |            |          |  |        |  |          |            | Т  |          |                |   |          |        |   |        |   |    |       |          |          |        |        |        | П         | П         |
| 30 -  |       | 28       | -          |  |   | П          | Π        | П  |        | Г  |          |            | T  | 78       |                |   |          | П      |   |        |   |    |       | 128      |          |        |        |        |           | $\neg$    |
| 31 - 81   32 - 131   33 - 83   34 - 84   35 - 85   36 - 86   37 - 88   39 - 88   40 - 90   41 - 91   42 - 92   43 - 93   44 v 94   45 - 95   46 - 96   47 v 97   48 - 99   149 -  |       | 29       | -          |  |   | Г          |          | Γ  | Г      | Г  |          |            | $\neg$   | 79       | T              | T   | Т        |        |   |        |   | 7  |       | 129      | П        | T      |        |        | П         | $\neg$    |
| 32 - 82   33 - 132   34 - 84   35 - 85   36 - 86   37 - 88   39 - 88   40 - 90   41 - 91   42 - 92   43 - 93   44 v 94   45 - 96   47 v 97   48 - 99   146 147   98 148   149   |       | 30       | -          |  |   | Г          |          | Г  |        |  | $\neg$   |            | T  | 80       |                |   | П        |        |   | $\neg$ |   |    |       | 130      | П        | П      |        |        | П         | $\neg$    |
| 33   -   83   133   134     35   -   85   135   135     36   -   86   136   137     38   -   87   137   137     38   -   88   138   138     39   -   90   140   141     41   -   91   141   141     42   -   92   142   143     43   -   93   143   144     45   -   95   145   146     47   v   97   147   148     48   -   98   148   149   |       |          |            |  |   |            |          |  |        |  |          |            | Т  | 81       |                | T   |          |        |   |        |   |    |       |          |          |        |        |        |           | П         |
| 34 -   84     35 -   85     36 -   86     37 -   87     38 -   88     39 -   88     40 -   90     41 -   91     42 -   92     43 -   93     44 v   94     45 -   95     46 -   96     47 v   97     48 -   99     134   135     135   136     137   138     139   139     140   141     141   142     142   143     144   144     145   144     146   147     147   148     148   149   |       |          | _          |  |   |            |          |  |        |  |          |            |  |          |                | Ι   | $\Box$   |        |   |        |   | ]  |       |          |          |        |        |        |           |           |
| 35 -   85     36 -   86     37 -   87     38 -   88     39 -   89     40 -   90     41 -   91     42 -   92     43 -   93     44 v   94     45 -   95     46 -   96     47 v   97     48 -   99     135   136     137   138     139   139     140   141     141   142     142   143     144   144     145   146     146   147     148   148   |       |          | _          |  |   |            |          |  |        |  |          |            | $\Box$   |          |                | $oxed{\Box}$  |          |        |   |        |   | ]  |       |          |          |        |        |        |           |           |
| 36 -   86     37 -   88     38 -   88     39 -   90     40 -   91     41 -   91     42 -   92     43 -   93     44 v   94     45 -   95     46 -   96     47 v   97     48 -   98     138   139     140   140     141   141     142   142     143   143     144   144     145   146     147   147     148   149   |       |          | <u> </u>   |  |   | 匚          | 匚        |  |        | 匚  |          |            | $oldsymbol{\perp}$                             |          |                | $oldsymbol{ol}}}}}}}}}}}}}}$  |          |        |   |        |   | ]  |       |          | Ш        | ┚      |        |        |           | ┚         |
| 37 -   88     38 -   88     39 -   90     40 -   91     41 -   91     42 -   92     43 -   93     44 v   94     45 -   95     46 -   96     47 v   97     48 -   99     137   138     139   140     141   141     92   142     143   143     144   144     145   146     147   147     148   149  |       |          | _          |  |   |            | $\Box$   |  |        |  |          |            |  |          |                |   |          |        |   |        |   |    |       |          | LĨ       | $\Box$ |        |        | $\square$ |           |
| 38 -   88     39 -   90     40 -   91     41 -   91     42 -   92     43 -   93     44 v   94     45 -   95     46 -   96     47 v   97     48 -   99     138   139     140   141     141   142     143   143     144   144     145   146     147   147     148   149   |       |          | <u>  -</u> |  |   | $\Box$     | 匚        |  |        |  |          |            | $\perp$  |          |                |   |          |        |   |        |   |    |       |          | LĪ       |        |        |        | $\square$ |           |
| 39 - 89   40 - 90   41 - 91   42 - 92   43 - 93   44 v 94   45 - 95   46 - 96   47 v 97   48 - 98   49 - 99   |       |          | <u>  -</u> |  |   | 匚          | 匚        | 匚  | L      |  |          |            | $\perp$  |          |                |   |          | $\Box$ |   |        |   |    |       |          | LI       |        |        |        |           |           |
| 40 - 90   41 - 91   42 - 92   43 - 93   44 v 94   45 - 95   46 - 96   47 v 97   48 - 98   49 - 99   |       |          | L=         |  |   | Ĺ          | 匚        | 匚  | $\Box$ | L  |          |            |  |          | $\Box \Box$    | $oldsymbol{ol}}}}}}}}}}}}}} $ |          | Ĺ      |   |        | $\Box \Box$                                       | ]  |       |          |          |        |        |        |           | $\Box$    |
| 41 - 91   42 - 92   43 - 93   44 v 94   45 - 95   46 - 96   47 v 97   48 - 98   49 - 99   |       | 39       | _          |  |   |            | Ĺ        |  |        | $\Box$   |          |            | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{I}}}$ | 89       |                | $oldsymbol{\mathbb{L}}$   |          |        |   |        |   | ]  |       | 139      |          | ┚      |        |        |           | $\Box$    |
| 42 - 92   43 - 93   44 v 94   45 - 95   46 - 96   47 v 97   48 - 98   49 - 99   |       |          |            |  |   |            |          |  |        | 匚  |          |            |  |          |                |   |          |        |   |        |   | ]  |       |          |          |        |        |        |           |           |
| 43 - 93   44 v 94   45 - 95   46 - 96   47 v 97   48 - 98   49 - 99   |       |          | _          |  |   |            |          |  |        |  |          |            |  |          |                | $oxed{oxed}$  |          |        |   |        |   |    |       |          |          |        |        |        |           |           |
| 44 v   45 -   46 -   47 v   48 -   49 -   94 -   95 -   145 -   146 -   147 -   98 -   148 -   148 -   149 -  |       |          | _          |  |   | Ĺ          | Ĺ        |  | 匚      | 匚  |          |            |  |          |                | $\perp$   |          |        | · |        | $\Box \mathbb{L}$                                 | ]  |       |          |          |        |        |        |           |           |
| 45 - 95   46 - 96   47 v 97   48 - 98   49 - 99   |       |          |            |  |   |            | 匚        |  | 匚      | 匚  |          |            | $oldsymbol{\perp}$                             | 93       |                | I   |          |        |   |        |   |    |       |          |          | ┚      |        |        | $\square$ |           |
| 45 -  |       |          |            |  |   | Ĺ          | Ĺ        | L  | 匚      | Ĺ  | _]       |            |  |          | $\Box$         | L   |          |        |   |        |   | ]_ |       |          |          |        |        |        |           |           |
| 47   v  |       |          | _          |  |   |            |          |  |        |  |          |            |  |          |                | Ι   |          |        |   |        |   | ]  |       |          |          | J      |        |        |           | J         |
| 47   v  |       |          | _          |  |   |            |          |  |        |  |          |            |  | 96       |                | $\prod$   |          |        |   |        |   | ]  |       | 146      |          |        |        |        |           | ╗         |
| 49 – 99 149 149   |       | 47       | v          |  |   |            |          |  |        |  |          |            |  | 97       |                | $\prod$   |          |        |   |        | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | ]  |       | 147      |          |        |        |        |           | コ         |
| 49 – 99 149 149   |       |          | _          |  |   |            | $L^{-}$  |  | $\Box$ | $\Box$   |          |            |  |          |                | Ι   |          |        |   |        |   | ]  |       |          |          | $\Box$ |        |        | $\Box$    | 丁         |
| 50  |       |          | _          |  |   |            |          |  | Ĺ      |  |          |            |  |          |                |   |          |        |   |        |   |    |       |          |          |        |        |        |           | $\Box$    |
| <del></del>   |       | 50       |            |  |   |            |          | L  | 匚      | 匚  |          |            | $\Box$   | 100      | $\Box$         |   |          |        |   |        |   |    |       | 150      |          |        |        |        |           |           |